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[illegible]	Undecorated - Phase 1 Low Nose [illegible]
[illegible]	Undecorated - Phase 1 Low Nose [illegible]
[illegible]	Conrail [illegible]
[illegible]	CSX [illegible]
[illegible]	Missouri Pacific [illegible]
[illegible]	Santa Fe [illegible]
[illegible]	Union Pacific [illegible]
	ATLAS MASTER GOLD SERIES
	[illegible]
[illegible]	Undecorated - Phase 1 Low Nose [illegible]
[illegible]	Undecorated - Phase 1 Low Nose [illegible]
[illegible]	Undecorated - Phase 1 Low Nose [illegible]
[illegible]	Conrail [illegible]
[illegible]	CSX [illegible]
[illegible]	Missouri Pacific [illegible]
[illegible]	Santa Fe [illegible]
[illegible]	Union Pacific [illegible]

[illegible]

General Electric's B23-7 was a direct replacement for the 2,250HP U23B model. The first B23-7 units were produced for Conrail in September, 1977. Production continued through 1984, with a total of 535 units built. Conrail was the largest purchaser of the model, with a total fleet of 141 units. There were three distinct "phases" to B23-7 production. Our model is of a "phase I" unit with a 36'3" wheel base. Phase I production lasted through the spring of 1979.

[illegible]

[illegible]

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[illegible] **The Eden chronicles: 5**
[illegible]

[illegible] **Burnsby**
[illegible]

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[illegible] **Pixie parthenia**
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Atlas announces Trainman line

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Highlighted in this issue

[illegible]

National conventions

[illegible]

Overland Models enters plastic market

[illegible]

[illegible]

[illegible]

[illegible]

New items in HO and N from Walthers

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Märklin Museum burglars caught; trains recovered

[illegible]

New products

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] $19.95 each. [illegible] series. Wm. K. Walthers, Inc.

HO scale passenger cars

Atchison, Topeka & Santa Fe [illegible] coach. [illegible] $49.95 each. [illegible] Products [illegible] models. Distributed by [illegible] Railway Co.

Seaboard Air Line express mail/ baggage. [illegible] kit. Includes etched-metal [illegible], running boards, detail parts, and [illegible] decals. [illegible] $75 plus $8 shipping. Trucks with metal wheels, [illegible]

Pullman-panel window coaches. [illegible] Wm. K. Walthers, Inc.

HO scale structures

Thomas Point Lighthouse. Laser-cut wood kit with etched-brass and cast-metal detail parts and [illegible] $139.95 plus $4.50 shipping. [illegible] Scale [illegible]

Pennsylvania RR [illegible] tower. [illegible] kit. $39.95. [illegible] Mountain Railway Co.

Pennsylvania RR interlocking tower. Measures [illegible] $39.95. [illegible] Mountain Railway Co.

Modern mobile homes. [illegible] $17 each. [illegible]

[illegible] Coal. Laser-cut [illegible] kit with window glazing, roofing material, scale drawings, and assembly photos. Measures [illegible] $139.95. Fine N Scale [illegible]

Western Mining and Assay Co. Laser-cut wood kit. Includes [illegible] $39 plus $6 shipping. Model Tech Studios.

Chester County Lumber Co. [illegible]

Large scale Shay. New from Bachmann is this 1:20.3 [illegible] 20-ton Shay locomotive. The model features 8-wheel drive, die-cast metal gearboxes, and soldering pads on the main printed-circuit board for installation of Digital Command Control (not included). The Shay lists for $799.95 and is decorated for Oregon Lumber Co., Ely-Thomas Lumber Co., W. M. Ritter Co., and West Side Lumber Co.

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[illegible]

[illegible]

[illegible]

HO scale Mack tractor: Two series of Mack tractor-trailers have been released by [illegible]. The model B tractor (left) comes with a 40-foot trailer, and the model R tractor has a 45-foot trailer. [illegible]

[illegible]

Assorted freight cars. [illegible]

N scale freight cars

Pacific Fruit Express class R-40 [illegible] **refrigerator cars.** [illegible]

N scale structures

Spanish-style gas station. [illegible]

N scale passenger cars

Pullman-Standard 4 bedroom, 4 compartment, 2 drawing room sleepers. [illegible]

N scale structures

City buildings. [illegible]

N scale details and accessories

Ford "C" delivery vans. [illegible]

Ford "C" [illegible] [illegible]

Ford "C" [illegible] [illegible]

Ford "C" tractors. [illegible]

Continued on page [illegible]

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O scale twin hoppers: United States Railroad Administration 55-ton steel twin hoppers have been released by Atlas O. [illegible]

Continued from page 12

[illegible]

Curved track sections: [illegible]

Kenworth T800 tractor and Rogers [illegible] trailer: [illegible]

Assorted figures: [illegible]

Large scale freight cars

50-foot four-bay covered hoppers: Atchison, Topeka & Santa Fe and [illegible]

S scale details and accessories

Assorted construction equipment: [illegible]

Manufacturer listing

[illegible]

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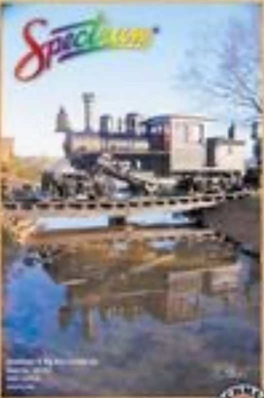

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	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	DESCRIPTION - CLASSIC SCHEME	[illegible]	
	[illegible]		
[illegible]	[illegible]	[illegible]	
	[illegible]		
[illegible]	[illegible]	[illegible]	

[illegible]	DESCRIPTION - TRANSITIONAL SCHEME	[illegible]	[illegible]
	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	DESCRIPTION - TRANSITIONAL SCHEME	[illegible]	
	[illegible]		
[illegible]	[illegible]	[illegible]	
	[illegible]		
[illegible]	[illegible]	[illegible]	

[illegible]	DESCRIPTION - HERITAGE SCHEME	[illegible]	[illegible]
	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	DESCRIPTION - HERITAGE SCHEME	[illegible]	
	[illegible]		
[illegible]	[illegible]	[illegible]	
	[illegible]		
[illegible]	[illegible]	[illegible]	

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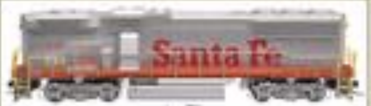
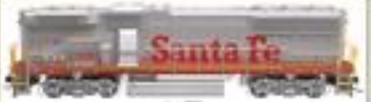
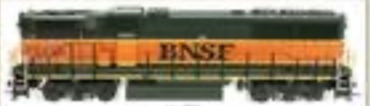


Item #[illegible]



Item #[illegible]



Item #[illegible]

[illegible]

FEATURES INCLUDE:

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

- [illegible]
- [illegible]

TMCC FEATURES:

- [illegible]
- [illegible]
- [illegible]
- [illegible]

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- [illegible]
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- **[illegible]** [illegible]
- **[illegible]** [illegible]

[illegible] **[illegible]** [illegible]

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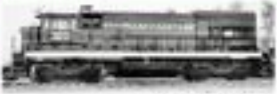

General Electric's U18B was more than five feet shorter than the U23B. The photographer notes that Seaboard Coast Line's name barely fits on the hood! The little locomotive sold in decent but not overwhelming numbers. A mass-produced model has never been made. [illegible]

[illegible] used by real railroads [illegible] in the 1970s and [illegible] to the 1990s, but [illegible] of any size.

[illegible] track, and spot numbers would be a simple task. And adding a small diagram labeled with track and spot numbers [illegible] would go a long way toward keeping freight flowing smoothly [illegible] especially on those nights when you're hosting a guest operator.

Can you provide some information on the General Electric U18B? I have [illegible] Locomotives (Kalmbach 2002) and Diesel Locomotives: The First 50 Years (Kalmbach 1995). The U18B is not listed in either book. How many U18Bs did GE make? Are they all B-B (four-axle) or did they come in C-C (six-axle) models? Which railroads purchased them?

Michael [illegible]
[illegible]

Both of the books you cited are excellent references, but the U18B was produced between March 1973 and October 1976, which lands the locomotive in the gap between the pre-1972 locomotives covered in the First 50 Years book and the 1977 start of General Electric coverage in the Field Guide.

The U18B is covered in a third reference, The Contemporary Diesel Spotter's Guide, Second Edition (Kalmbach [illegible]). GE made 118 of the model: [illegible] locomotives for the domestic market and 49 U18Bs for Mexico. All the locomotives rode on B-B trucks. [illegible] Maine Central U18Bs [illegible] Electro-Motive Division [illegible] trucks.

The U18B is classified as a light road switcher, meaning they [illegible] locomotives that [illegible] the frames and trucks of a road switcher but the relatively low-horsepower engine of a switcher. The designation is a bit of a stretch in this instance, although it listed one in its catalog, GE never built a true 1,800 hp switch engine.

Diesel authors Louis A. Marre and Jerry Pinkepank wrote that the U18B was clearly a model intended for the same market as EMD's GP15-1, a 1,500 hp locomotive that used the same diesel engine found in EMD's GP7/9s [illegible]. Both the U18B and GP15 were designed to [illegible] components from [illegible] locomotives, a money-saving option for railroads.

In the end neither locomotive sold in huge numbers. Presumably most railroads had no need for a new low-horsepower locomotive when their existing fleet of GP7s or GP9s could do the same work.

The U18B was purchased by the Maine Central, National Railways of Mexico, Providence & Worcester, Seaboard Coast Line, and Texas Utilities.

No mass-market model of the U18B has ever been produced. In an article in the August [illegible] issue of Model Railroader, [illegible] explained how he made a U18B by extensively kitbashing an HO scale [illegible] U23B. – A.S.

Send your questions about prototype railroading to Information Desk, Model Railroader Magazine, P.O. Box 1612, Waukesha, WI 53187, or e-mail [illegible]. The staff can not answer all the questions we receive.

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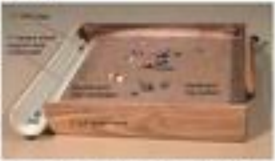

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[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

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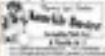

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[illegible]

[illegible]

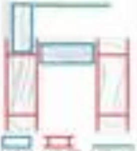
[illegible]

Step 1 Tables and beams

[illegible]

[illegible]

[illegible]



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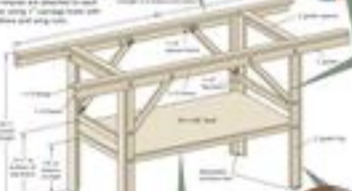

[illegible]

[illegible]

[illegible]

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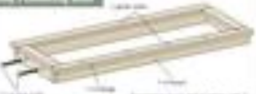
Step by Step

Step 3 Connecting boxes



[illegible]

[illegible]

[illegible]

[illegible]

Step 4 Attaching layout sections

[illegible]

[illegible]

[illegible]

HOBBYSHOP COUNTER

“Hobbyshop Counter” [illegible]

Overland Launches New “Tower 55” Injection-Molded Line

Overland Models, long known for its exceptionally detailed brass models, is launching a new line of injection-molded [illegible] HO plastic models under the Tower 55 label [illegible] this year. [illegible] Overland [illegible] initial offerings will include the GE Evolution Series, EMD SD70ACe, and the UP [illegible]

Prototype photo of a BNSF ES44DC by Brian [illegible]. The diesel [illegible] will be one of the first offerings in the new Tower 55 line.

The GE Evolution Series models will include BNSF ES44DC & UP ES44AC. EMD models will include the SD70ACe [illegible] UP [illegible] as the initial offerings, [illegible] many other roadnames are planned.

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[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

The Taller Tall Steel Viaduct

[illegible]

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DIGITRAX

extraordinary for the models being built during that time.

Some of Kadee designs were well ahead of developments when the model railroad industry developed new standards and technology.

Over the years, the company has introduced offset couplers, long and short shank couplers, special application couplers, "scale" couplers, and recently a smaller shaft-type [illegible] coupler.

Kadee's latest release is the No. 148 "Whisker" coupler with a built-in wire centering spring that makes the coupler a single one-piece "drop-in" design.

This whisker spring design is not new to Kadee; it was developed in the late 1980s, but was set aside for future development, when new material became available to make the design reliable enough to meet the company's quality standards.

The knuckle and coupler head are the same as the Kadee standard No. 5. Kadee plans a "scale" version for this design as well.

The Whisker coupler is all metal, including the wire spring.

Kadee says the metal is high tech and extremely resilient, and will not take a set when in a compressed position for any length of time.

The No. 148 is a medium-length coupler that will drop into most "standard" draft gear boxes. It is designed to match the length and height of the popular No. 5 coupler.

As with other Kadee couplers, it has "magne-matic" and "delayed action" operation and will function with all of Kadee's HO permanent and electric magnetic uncouplers.

The Whisker centering spring is a thin wire protruding at a "V" angle forward from the pivoting boss at the end of the shank. Because the wire spring is [illegible], care should be taken when handling the coupler.

The couplers are sold in packages of two pairs with draft gear boxes and have a suggested retail price of $3.75.

Model Tech Releases HO Moving Co. Scene

Model Tech Studios has announced the release of its latest kit, the [illegible] Hauling and Packaging Co. scene.

The latest kit contains three structures including a pre-assembled "hollow

[illegible]

Kadee Releases Three New HO Steel Schemes

[illegible]

[illegible]

[illegible]

[illegible]

Intermountain Announces Fall Release of N Scale F7 A and B units

[illegible]

Missouri Pacific and Western Pacific. For more information visit the company's Web site at [illegible].

Walthers' New HO Scale Oil Dealership Offers Trackside Business Variety

Walthers has announced the release of its McGraw Oil Company, the newest in the company's Cornerstone Series line of HO structures. This small oil dealer is an ideal trackside industry typical of those found across the continent.

Typically located along a railroad spur, small oil dealerships like McGraw were an important stop on the local freight [illegible] to bring in tank cars. Dealers often received several grades of oil in bulk including heating oil, gasoline and kerosene in tank cars and stored these commodities in tanks. Oil delivery tank trucks were filled at the yard and made deliveries to residential and commercial customers. Small dealers like McGraw might only handle a single grade.

Based on common prototypes found across the continent, the easy-to-build McGraw Oil Company kit includes four vertical oil tanks, a warehouse barn, a pumphouse, an office, tank car unloading piping and realistic decal signs for a couple of oil company names. It's patterned after prototypes constructed in the 1920s, but many of these businesses are still going strong in small towns, so it'll look great on any steam- or diesel-era layout. The kit has a suggested retail of $34.98.

For more information visit Walthers on the Internet at walthers.com, call 414-527-0770 or write Walthers, PO Box 3039, Milwaukee, WI 53201-3039.

New HO Scale Pullman-Standard 64-Seat Coaches Add Variety To Passenger Consists

Walthers also announced the release of new Pullman-Standard 64-Seat Coaches in HO scale. These ready-to-run models will arrive in July 2007.

Based on the 150 cars [illegible] delivered through 1949 by Pullman-Standard to the New York Central, these 64-seat cars afforded coach travelers spacious seating while offering the railroads higher passenger capacity. Unlike heavier cars built with 52 reclining seats for long-distance and overnight trains, these cars were ideal for short- and medium-distance runs. The cars were long lived; some were later converted into commuter cars and others were acquired by Amtrak in 1971. Similar cars were operated by other railroads.

New Walthers Pullman-Standard 64-Seat Coaches feature separately applied ends and underbody details, and ride on all-new GSC 41-N-11 trucks with applied brake details and turned-metal wheelsets. Depending on the prototype, each model will be offered with smooth or fluted sides, with or without skirting, as appropriate for each roadname. In addition, each has the same high-quality features found on Walthers lightweight streamlined passenger cars, such as working diaphragms, flush-fitting windows, detailed interiors, [illegible] and a removable roof. Built-in electrical contacts and bushing [illegible] allow quick and easy installation of Walthers Passenger Car Interior Lighting Kits (DC Version 933-1049, $19.98; DCC Version 933-1083 $[illegible]).

Walthers Pullman-Standard 64-Seat Coaches sell for $[illegible] each and are available in the following roadnames:

932-6781 GN "Empire Builder"
932-6782 ATSF
932-6783 C&NW "Late Scheme"
932-6784 Amtrak Phase I
932-6785 SP [illegible]
932-6786 MP
932-6787 PRR Late Scheme
932-6788 CB&Q [illegible]
932-6789 L&N
932-6790 Rock Island
932-6791 UP
932-6792 NYC Two-tone gray passenger band
932-6793 Undecorated, Smooth Sides (no skirt)
932-6794 Undecorated, Fluted Sides (with skirts)

For more information on Walthers HO-scale passenger cars, or to locate a dealer, visit Walthers on the Internet at walthers.com. Call 414-527-0770 or write Walthers, PO Box 3039, Milwaukee, WI 53201-3039. ▲

by Doug Geiger, MMR

Kansas City Southern Lines

Kansas City Southern Lines

[illegible]

[illegible]

The Vista-Dome North Coast Limited

[illegible]

When the Northern Pacific Railway [illegible]

FREIGHT CARS

The Model Railroader's Guide to Freight Cars

[illegible]

Rolling stock [illegible]

KPC [illegible] KPC

[illegible]

BECOME YOUR OWN BUILDER
RATIO
SHOP AT RATIO

RAILWAY
MODELLER

[illegible]

All in the mind

Railway modelling is an activity unlike other hobbies in that imagination plays a significant role.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Welcome aboard

[illegible]

Market Harborough

A Leicestershire junction station updated

[illegible] presents this N gauge vision of the location as it [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

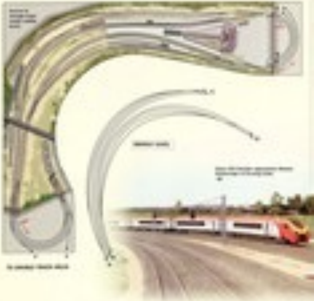
Why [illegible]?

[illegible]

The [illegible]

[illegible]

[illegible]



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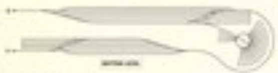


MARKET HARBOROUGH [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Locomotives and rolling stock

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Signalling

[illegible]

[illegible]

[illegible]

'Severn'

of the Shropshire & Montgomeryshire Railway

A first essay in locomotive scratchbuilding by **[illegible]**

[illegible]

[illegible]

[illegible]

Return to Ardlui

West Highland Wanderings - 7

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

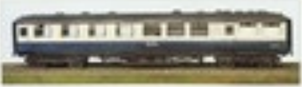
[illegible]

[illegible]

Gresley coaches

[illegible]

[illegible]



A Gresley buffet

For the 'blue & grey Mk 1' era

NEIL RIPLEY carries out some modifications to a Hornby 4mm scale ex-LNER catering vehicle

[illegible]

[illegible]

[illegible]

[illegible]

Maximum Operation

With Minimum Paperwork

[illegible]

Are [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

POCO VALLEY RAILROAD

TRAIN: [illegible] CAB: [illegible] SEQUENCE: [illegible]

DEPARTS: [illegible] DIRECTION: [illegible]

[illegible]

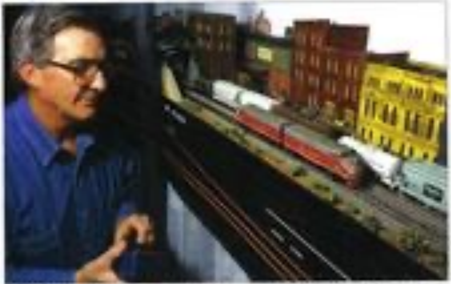
Figure 2: Example of Clearance Card

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

Figure 3 -Consist of NJ-31 leaving Chambers Yard

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ROAD GRADER LOADS

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

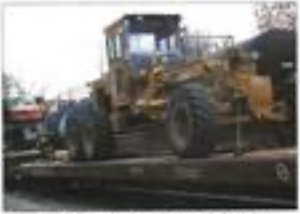
[illegible]

[illegible]

[illegible]

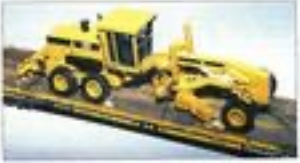
[illegible]

ROAD GRADER LOADS



In contrast to the numerous chains and blocks used on the new Cat graders, this Galion [illegible] is secured to a piggyback flat car with just a few chains. A friendly railroader confirmed that the grader belonged to the railroad and was being moved from one terminal to another to be used in yard maintenance.

[illegible]



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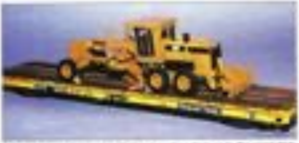


The rear-mounted ripper could do some serious damage to the wood deck of a flat car; to prevent that damage, a 4x6 timber is placed under the teeth of the ripper.

[illegible]

South Pimlico

Passports not required

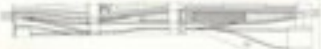
[illegible] [illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

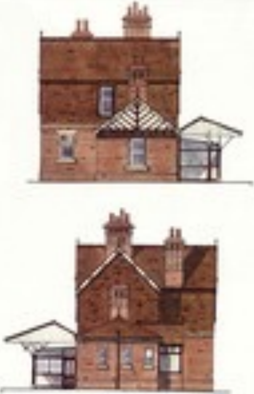
[illegible]

Bluebell Railway stations

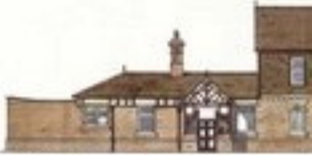
LBSCR structures drawn and described

[illegible] begins a trilogy of features looking at the structures of this famous line.

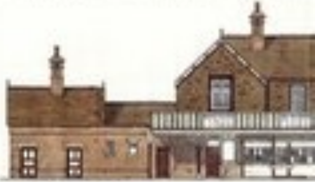
[illegible]



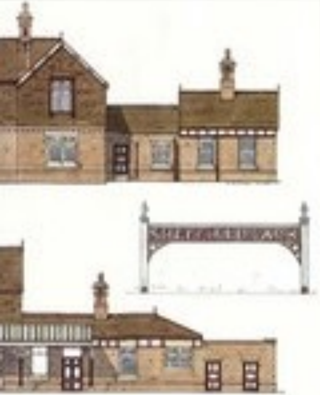
END ELEVATIONS

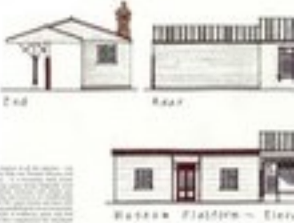


SHEFFIELD PARK STATION — Entrance



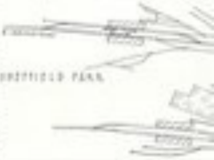
Platform Elevation

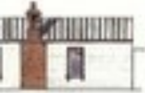

SHEFFIELD PARK

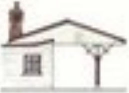

End
Rear

[illegible]

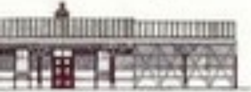
[illegible]







End



aline

[illegible]

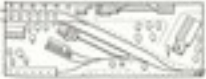
The Ditton chronicles

Part 3 - Ditton Heath

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

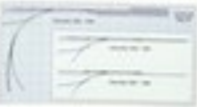
Darrowby

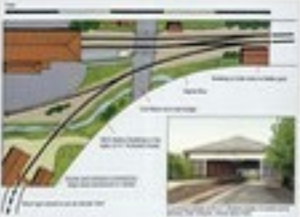
How to be inspired on Sunday night

[illegible] 'imagineers' a branch line serving a North Yorkshire market town.

[illegible]

[illegible]





[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Dirty work at Compton Down

You wouldn't want to spend a holiday there...

...unless of course your name was **PETER JONES**

[illegible]

[illegible]

[illegible]

[illegible]

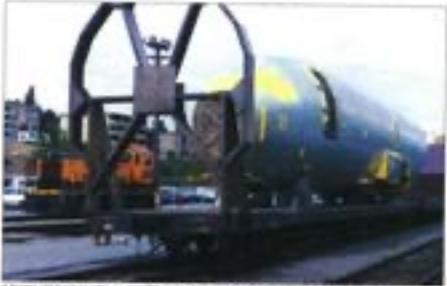
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



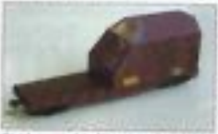
[illegible]

Modeling a

BOEING 737 FUSELAGE TRANSPORT

[illegible]

[illegible]



[illegible]

[illegible]

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MODELING A BOEING 737 FUSELAGE TRANSPORT

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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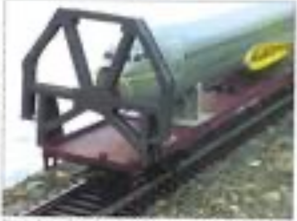
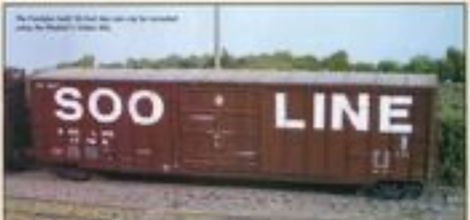


[illegible]

FONDULAC 50-FOOT X-POST BOX CARS AS SOO 17788 AND 18280 FROM MODELER'S CHOICE KITS

By Bob Rivard


The Fondulac-built 50-foot box cars can be recreated using the Modeler's Choice kits.

[illegible]

I cement a scrap of .030 styrene to the top side of the floor to reinforce the new pocket location.

[illegible] Branchline [illegible]

The Modeler's Choice [illegible]

SOO LINE
SOO LINE

The Modeler's Choice kits make it simple to model any [illegible] Pullman-built cars. Depending on which series the car you choose to model, a different type of end piece would be needed. The Modeler's Choice manual [illegible]. The ends, roof and underframe can be purchased from Modeler's Choice.

The prototype photos for these cars [illegible] www.[illegible] Modeler's Choice is producing [illegible] Modeler's Choice web site to see all the options: www.modelerschoice.com

The basic procedure for assembling these Modeler's Choice kits is as follows: [illegible] a straight edge. [illegible] along the straight edge [illegible] Micro Weld to glue in place.

I next turn my attention to the floor. [illegible] X-Acto blade to cut out the [illegible] coupler pockets. I reposition the pockets outward about 2 scale feet and cement in place. I [illegible] .020 styrene [illegible] the floor in order to reinforce the new pocket location [illegible] pieces.

The next step is to cement strips of .020 x .030 inch styrene to the edges of the [illegible] Branchline roof. Per the Modeler's Choice instructions, I use some [illegible] X-Acto blades to properly space the roof from the top of the sides. I cement the roof in place using styrene cement. Next I add the various detail parts such as trucks, door stops and door latch details.

I [illegible] Scalecoat II Tuscan Red. I decaled the car using Microscale Soo Box Car set 87-114.

RMJ

DCS wiring tips

Adding MTH's control system to medium and large layouts

by [illegible] | [illegible]

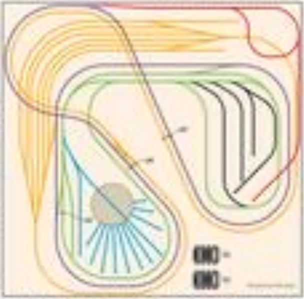
T[illegible]

Medium and big examples

[illegible]

DCS on existing layouts

[illegible]



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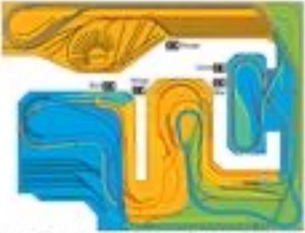
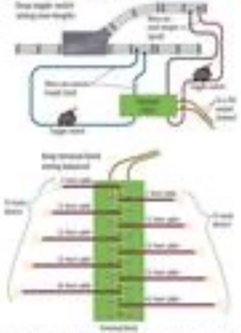


Tony Lash's massive 40- by 60-foot O gauge layout uses the regional wiring approach. Each colored area is controlled by its own TIU.



The DCS signal works best when toggle switches do not create uneven lengths of wire, as shown on the top graphic. Balance is also beneficial at the terminal blocks.

[illegible]

DCS on new construction

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Blocks and toggle switches

[illegible]

[illegible]

[illegible]

Test as you go with music

[illegible]

[illegible]

[illegible]

[illegible]

You can use an Apple iPod digital music player to monitor your DCS signal strength.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Remove the film on black rails

[illegible]

[illegible]

[illegible]

[illegible]

A protective coating on blackened center rails may impede the DCS signal.

[illegible]

Interference from other accessories

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

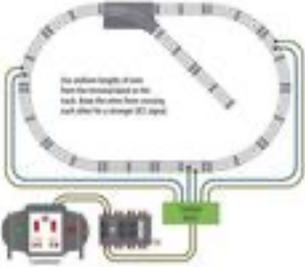
Terminal strips and wiring

[illegible]

[illegible]

[illegible]

[illegible]



Use uniform lengths of wire from the terminal board to the track. Keep the wires from crossing each other for a stronger DCS signal.

On both simple and complex layouts, using terminal blocks and keeping wire or cable lengths balanced helps keep a DCS signal from deteriorating.

[illegible]

Types of wire

[illegible]

Terminating wires

[illegible]

More information

[illegible]

[illegible]

Adding an 18-volt light bulb mounted in a simple socket can help your DCC signal strength.

The light-bulb trick

[illegible]

BANISH weak crossing gates

by Dennis Eichenberg

This circuit improves gate performance with trolleys and other four-wheel units

[illegible]

[illegible]

[illegible]

[illegible]

It doesn't take much time or effort to install a capacitor and relay that lets your O gauge trolley consistently operate automatic crossing gates with insulated track sections. William Zuback photo

STEP 1 Relay, rectifier, and capacitor

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

STEP 2 Assembling the components

[illegible]

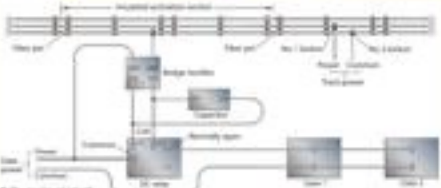
[illegible]

[illegible]

Radio Shack components

[illegible]

[illegible]



Insulated activation section
Fiber pin
Fiber pin
No. 1 lockon
No. 2 lockon
Power
Common
Track power
Bridge rectifier
Capacitor
Coil
Normally open
Common
Gate power
Power
Common
DC relay
Gate 1
Gate 2

Trolley crossing gate circuit

STEP 3 Installing the circuit

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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A little-used approach to model building construction

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Binnigor Road

An intensive 00 exhibition layout built from leftovers

This layout, the title of which is an anagram, was built and described by **[illegible]**

[illegible]

[illegible]

The Norton & Radstock Light Railway

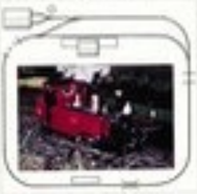
a steam operated garden line

This outdoor railway, with [illegible] beginnings, is described by [illegible]

[illegible]

[illegible]

[illegible]



CY06 ZGL

Send in the
clones

[illegible] Citroën C1, Peugeot 107 or Toyota Aygo? Chris Harris decides.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

CITROEN C1

[illegible]

N[illegible]

PEUGEOT 107

[illegible]

WHAT'S COMING NEXT

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

TOYOTA AYGO

[illegible]

[illegible]

[illegible]

CITROËN • PEUGEOT • TOYOTA

[illegible]

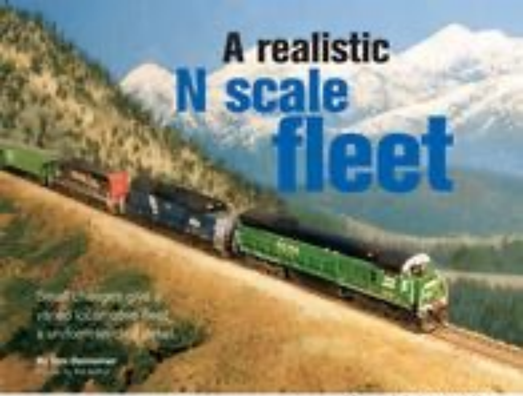
[illegible]

[illegible]

[illegible]

[illegible]

A realistic N scale fleet



[illegible]

[illegible]

[illegible]

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[illegible]

Setting a locomotive standard

[illegible]

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BNSF DASH 9-44CW 782

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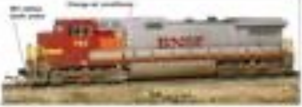

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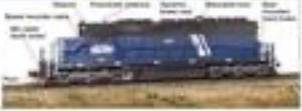

MRL GP9 118

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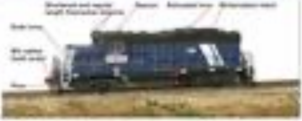

MRL SD45-2 7050

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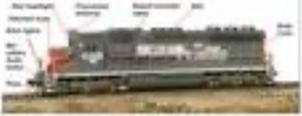

BN SD60MAC 9500

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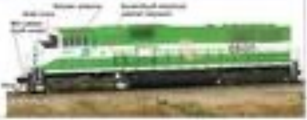

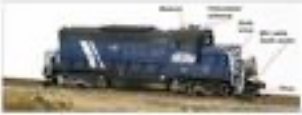

MRL GP9 127

[illegible]

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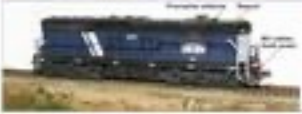

MRL SD7 607

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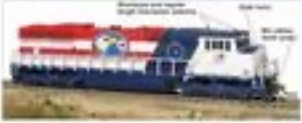
[illegible]



BN SD60M 1991

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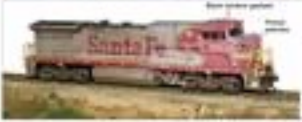

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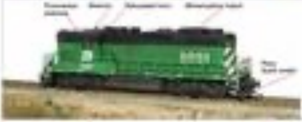

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[illegible]

BN GP50 3160

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BN C30-7 5054

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MRL SD19-1 661

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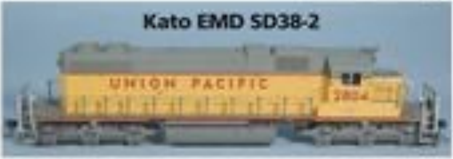

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by Rich Picatello

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Bachmann Class 66, continued

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A Return Ticket to Southend

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